ABSTRACT

[Problem] To optimize the valve seat shape of the valve housing such that the resistance to passage of cooling water can be diminished in a housing type thermostat device.

[Means for solution] The valve seat shape further on the downstream side in the direction of flow of the cooling water than the valve seat 22 where an umbrella-shaped valve body 12 is seated, which is an internal wall face forming a cooling water passage 21 within the valve housing 20, is formed in a shape such that, in the valve open condition, the cross-sectional area of the passage that is formed between the inlet seal 32 of the valve seat and the top face 41 of the valve body gradually decreases on the cooling water inlet 31 side with reference to the maximum passage cross-sectional area on the upstream side in the flow direction of the cooling water, and such that the [cross-sectional] area of the passage at the face perpendicular to the top face gradually increases on the cooling water outlet 33 side so that cooling water flows along the top face of the valve body.